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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,483	•	11/09/2001	James Leroy Snell	125.003USR1	7202
21967	7590	05/05/2006	:	EXAMINER	
		LIAMS LLP	WANG, TED M		
	TREET, N.	ROPERTY DEPARTN W.	ART UNIT	PAPER NUMBER	
SUITE 1200				2611	
WASHINGTON, DC 20006-1109				DATE MAILED: 05/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	U
	10/005,483	SNELL ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ted M. Wang	2611	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence address	s
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU 136(a). In no event, however, may will apply and will expire SIX (6) No e, cause the application to become	NICATION. If a reply be timely filed  IONTHS from the mailing date of this community  ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 31 h	s action is non-final. Ince except for formal m	•	rits is
Disposition of Claims			
4) Claim(s) 1-133 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) 1-133 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subjected to by the Examine 10) The specification is objected to by the Examine 10) The drawing(s) filed on 09 November 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	er.  are: a) accepted or by drawing(s) be held in abeyetion is required if the drawing.	vance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.	121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in ority documents have be nu (PCT Rule 17.2(a)).	n Application No en received in this National Stag	ge
Attachment(s)    Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Paper No(s)/Mail Date	Paper N	w Summary (PTO-413) lo(s)/Mail Date. <u>22 December 2005</u> . of Informal Patent Application (PTO-152) 	)

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#### **DETAILED ACTION**

### Response to Arguments

1. Applicant's arguments, referred to Applicant's Statement on Substance of Interview, dated 12/22/2005, with respect to Claims 1-29, 36-90, and 97-122 have been fully considered and are persuasive. The rejection of claim(s) 1-29, 36-90, and 97-122 under 35 USC § 112 first paragraph has been withdrawn.

#### Reissue Applications

2. In accordance with 37 CFR 1.175(b)(1), a supplemental reissue oath/declaration under 37 CFR 1.175(b)(1) must be received before this reissue application can be allowed.

Note: Formal matters which are identified for the 1st time after a reply is made to a Final Office action and which require action by applicant to correct may be required in an Ex Parte Quayle action if the application is otherwise in condition for allowance MPEP 706.07(f)(III)(L).

## Allowable Subject Matter

- 3. Claims 1-133 are allowed.
- 4. The following is an examiner's statement of reasons for allowance.
  - The prior art fails to teach an apparatus of Claims 1, 17, 36, 44, 55, 62, 78, 97, 105, and 116 that specifically comprises the following:
    - -- The instant application is deemed to be directed to a non-obvious improvement over the admitted prior art of the instant application and

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the invention patented in Pat. No. US 6,567,389 B1, and US 4,813,001. The improvement comprises:

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With regard to Claim 1 and 62, "said demodulator comprising at least one modified Walsh code function correlator for decoding information according to a modified Walsh code having a reduced DC component for reducing an average DC signal component of the information decoded by the modified Walsh code relative to that information being decoded by an unmodified Walsh code" as recited, and

With regard to Claims 17, 36, 44, 55, 78, 97, 105 and 116, "wherein the predetermined orthogonal code is modified to have a reduced DC component for reducing an average DC signal component of the information decoded by the (predetermined) orthogonal code relative to that information being decoded by the (predetermined) orthogonal code in its unmodified state." as recited.

The examiner's statement of reasons for allowance with respect to claims 30-35, 91-95, and 123-133 has been addressed in the previous Office Action # 04192005, dated 4/29/2005.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 2611

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

5. This application is in condition for allowance except for the following formal matters:

See above.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted M. Wang whose telephone number is 571-272-3053. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ted M Wang Examiner Art Unit 2634

Ted M Wang April 28, 2006

CHIEH M. FAN
SUPERVISORY PATENT EXAMINER